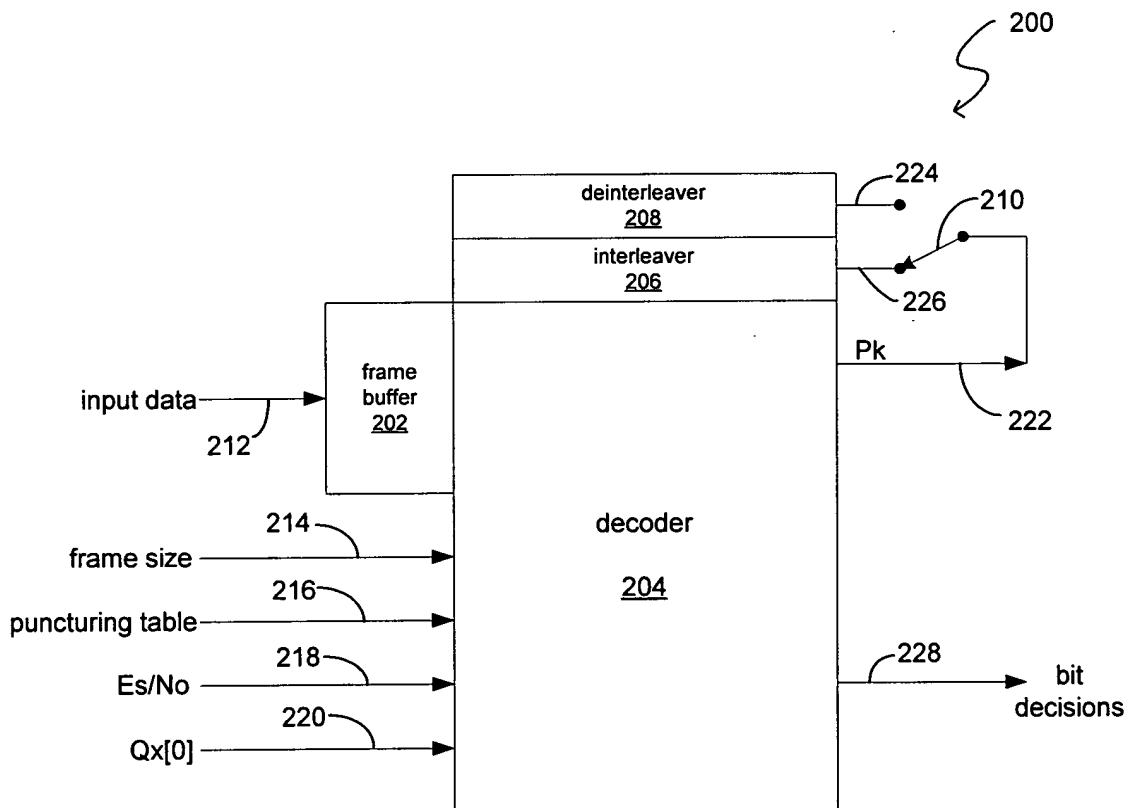


100

102	104
$z = x_1 - x_2 $	$\log_{\text{table}}(z) = \log(1 + e^{-z})$
z_0	a_0
z_1	a_1
z_2	a_2
\vdots	\vdots
z_{N-1}	a_{N-1}

103 105

Figure 1 (Prior Art)**Figure 2**

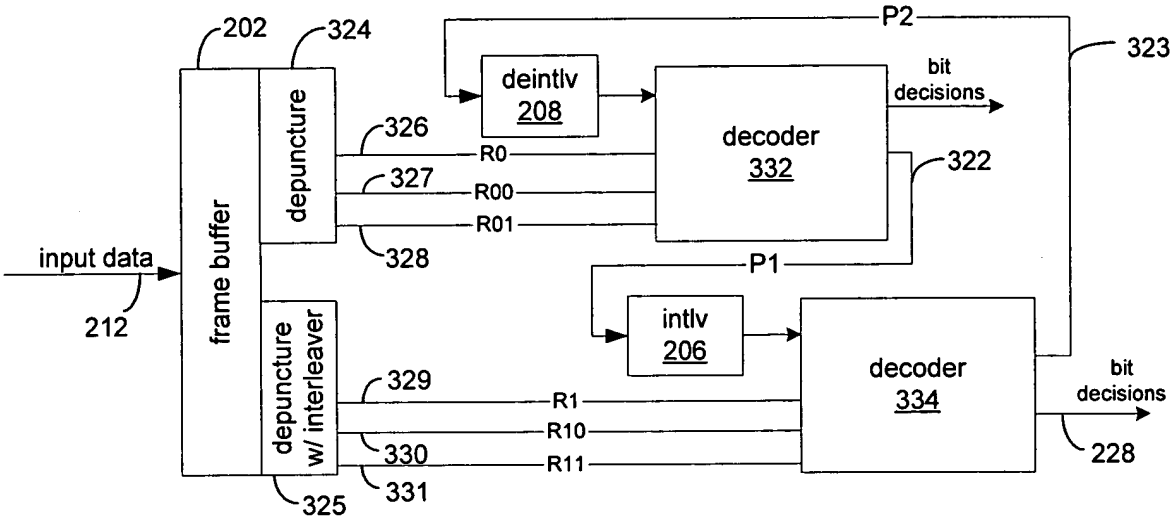


Figure 3

400

402	404
$\tilde{z} = z\sigma^2$	$\log_{s-table}(\tilde{z}) = \log(1 + e^{-z})\sigma^2$
\tilde{z}_0	\tilde{a}_0
\tilde{z}_1	\tilde{a}_1
\tilde{z}_2	\tilde{a}_2
\vdots	\vdots
\tilde{z}_{N-1}	\tilde{a}_{N-1}

406 407

Figure 4

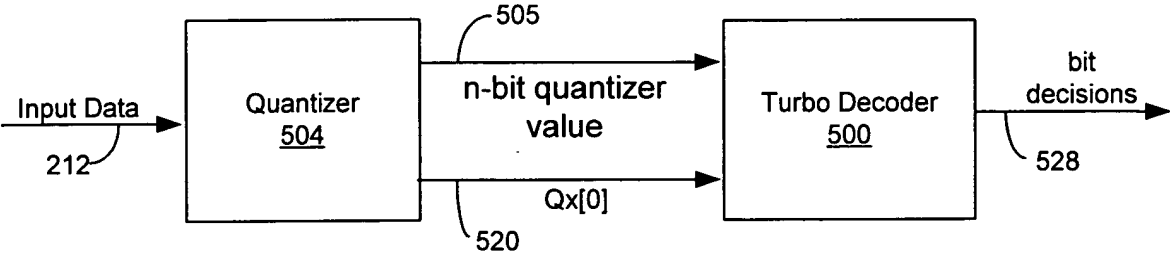


Figure 5

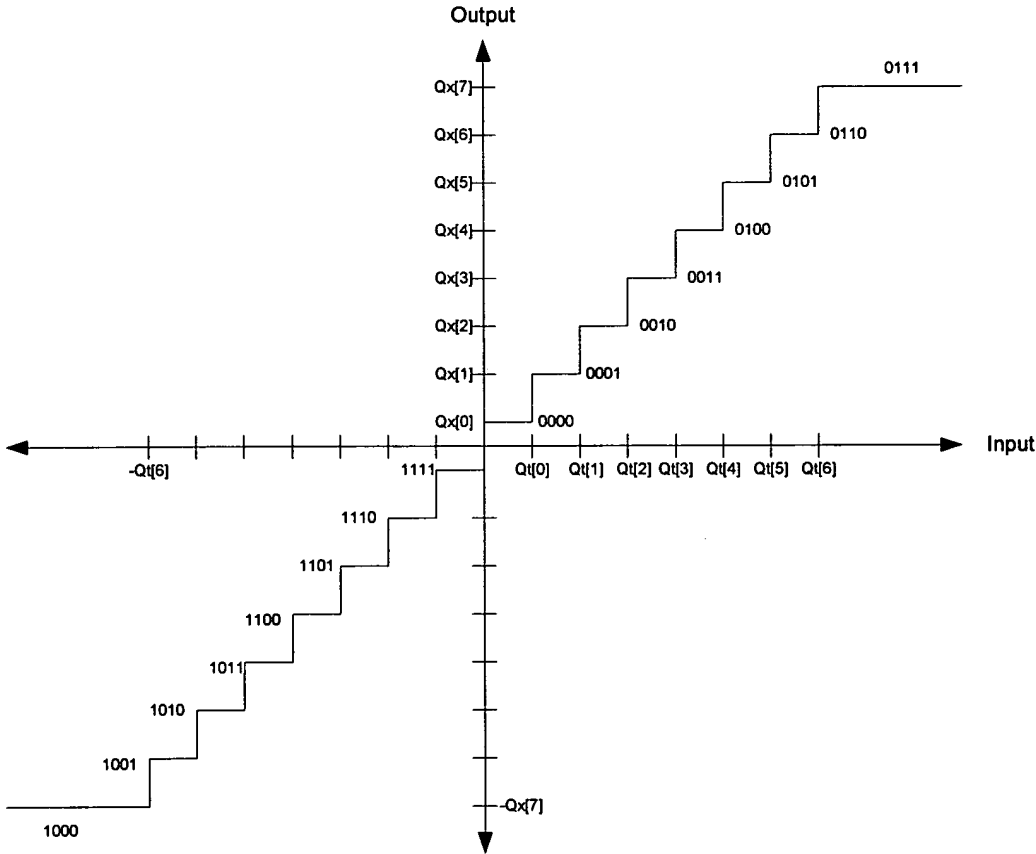


Figure 6

702 $z' = z\rho\sigma^2 / Qx[0]$	704 $\log_{s-table}(z') = \log(1 + e^{-z'})\rho\sigma^2 / Qx[0]$
z'_0	a'_0
z'_1	a'_1
z'_2	a'_2
\vdots	\vdots
z'_{N-1}	a'_{N-1}

Figure 7

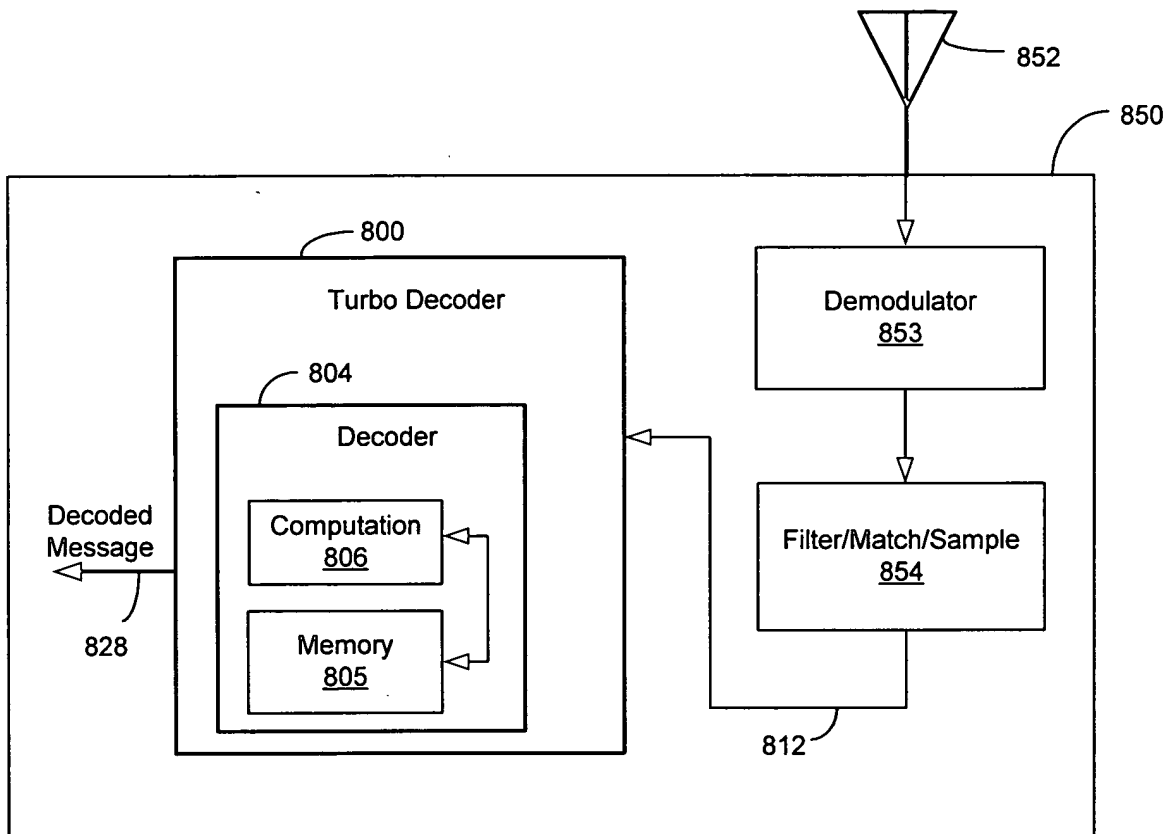


Figure 8

900

902

910

904

\bar{z}	z_{Addr}	$\log_{table}(\bar{z}) = \log(1 + e^{-\bar{z}})$
$\bar{z}_0 = 0$	0	\bar{a}_0
$\bar{z}_1 = 1 \times 2^{\lfloor \log_2(z_I) \rfloor}$	1	\bar{a}_1
$\bar{z}_2 = 2 \times 2^{\lfloor \log_2(z_I) \rfloor}$	2	\bar{a}_2
\vdots	\vdots	\vdots
$\bar{z}_{2N-1} = (2N-1) \times 2^{\lfloor \log_2(z_I) \rfloor}$	$2N-1$	\bar{a}_{2N-1}

Figure 9

FIG. 9 is a table of values for the log table.

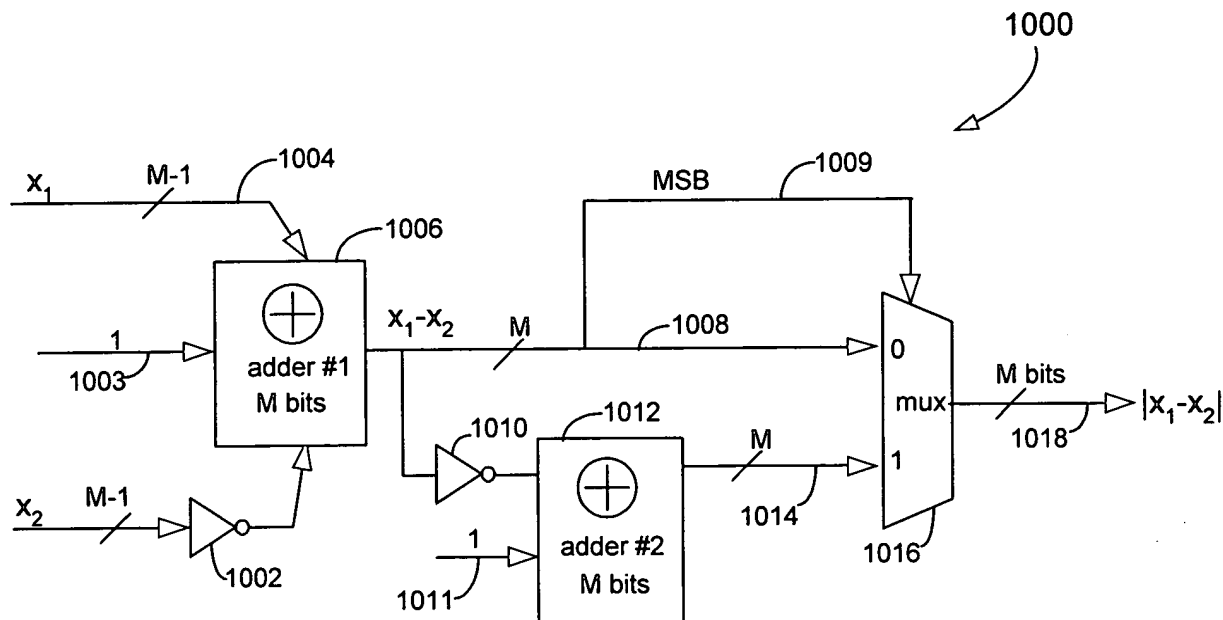


Figure 10

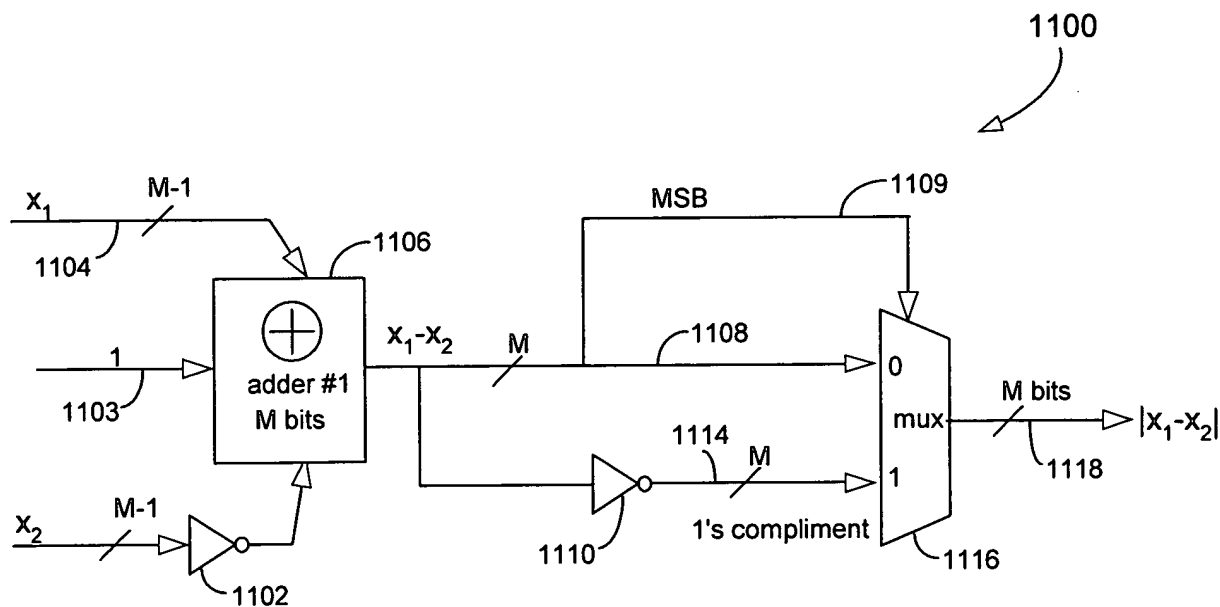


Figure 11

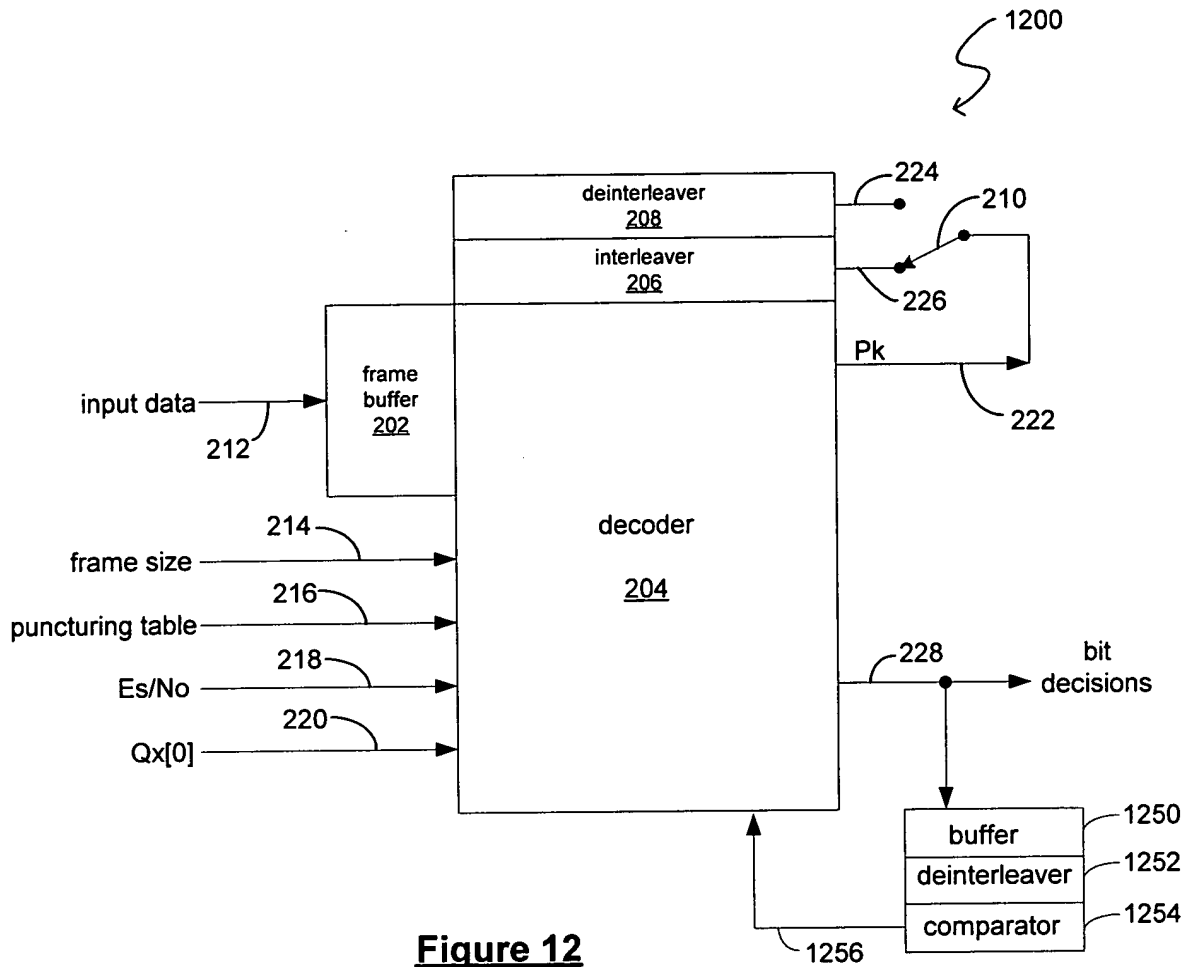


Figure 12

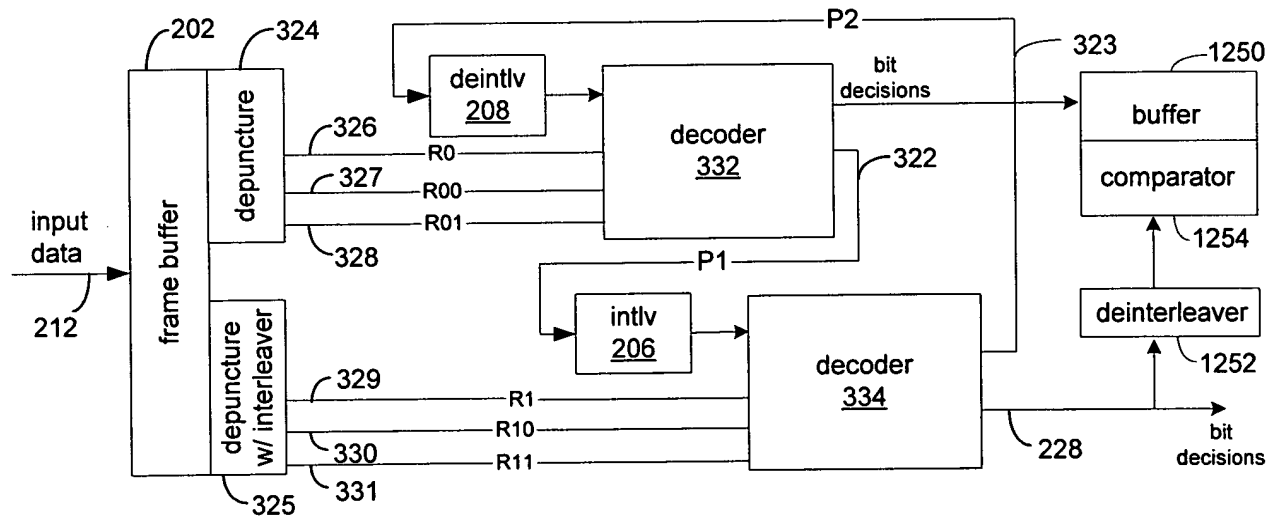


Figure 13